

ABSTRACT OF THE DISCLOSURE

A primary controller operates to transmit write data and a write time to a secondary controller in the earlier sequence of the write times after reporting a completion of a request for write to a processing unit. The secondary controller stores the write data and the write time transmitted from the primary controller in the cache memory. At a time, the secondary controller stores the write data in a disk unit in the earlier sequence of the write time. These operations make it possible to guarantee all the write data on or before the reference time.